NIAGARA MOHAWK

NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

April 30, 1985
(NMP2L 0394)

Mr. R. W. Starostecki, Director
U.S. Nuclear Regulatory Commission
Region I
Division of Reactor Projects
631 Park Avenue
King of Prussia 19406

Re: Nine Mile Point - Unit 2
Docket No. 50410

Dear Mr. Starostecki:

Enclosed is a final report, in accordance with 10CFR50.55(e), for the problem concerning a hydraulic transient for pump restart in the service water system. This problem was reported via tel-con to S. Collins of your staff on February 15, 1984. An interim report was submitted via our letter dated March 14, 1984.

Very truly yours,

C. V. Mangan
Vice President
Nuclear Engineering and Licensing

CVM/GG/cla

xc: Director of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

R. A. Gramm, NRC Senior Resident Inspector

Project File (2)

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NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT - UNIT 2
DOCKET NO. 50-410

Final Report for a Problem
Concerning Hydraulic Transient for Pump Restart
(55(e) - 84-09)

Description of the Problem

The hydraulic transient for pump restart was not considered in the service water piping system analysis. As a result of problems in some operating plants, this condition was initially addressed by the Nuclear Regulatory Commission in NUREG 0582.

Analysis of Safety Implications

A detailed investigation of the effects of a pump restart on pipe and pipe support stresses for the service water system was not performed. It is possible that a pump restart could increase the pipe or support stresses to a magnitude high enough to render the system inoperable. Therefore, this condition could have adversely affected the safety of operations of the plant.

Corrective Actions

The loadings from the hydraulic transient for pump restart are being included in the pipe stress analysis and the pipe support reconciliation effort for the affected Category I service water piping system. It should be noted that the project as-built stress reconciliation program takes into account all changes in design/layout since the initial piping system analysis. Therefore, if this analysis indicates a modification is required, it may not be possible to identify the specific change or changes that caused the need for the modification. The stress reconciliation program will be completed by January 20, 1986.